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Atty Dkt 9000-0030.10 PATENT

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Washington, D.C. 20231 on to break

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Fatrice Kyrne

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

JIANG et al.

Serial No.: 09/234,733

Group Art Unit: 1643

Filing Date: January 21, 1999

Examiner: Unassigned

Title:

CAMP FACTOR OF STREPTOCOCCUS UBERIS

REQUEST FOR A CORRECTED FILING RECEIPT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Please furnish the undersigned with a corrected filing receipt for the aboveidentified application. The corrections needed are as follows:

Under Title please replace "OD" with -OF-.

Attached is copy of the Filing Receipt with the correction highlighted. Also included is page 1 of Request for Filing and first page of the Application showing the correct spelling.

It is believed that no fee is due. If for any reason a fee is found to be necessary, our Deposit Account No. 18-1648 may be charged therefor.

Respectfully submitted,

excension No. 2006

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PTO-103XR E'C E I V E D

(Rev. 8-95)

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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

ROBINS & ASSOCIATES

APPLICATION NUMBER FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
09/234,733 01/21/99	1643	\$380.00	9000-0030.10	14	12	1

ROBERTA L ROBINS REED & ROBINS 285 HAMILTON AVENUE SUITE 200 PALO ALTO CA 94301

Robins 4 Care

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLI OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. if an error is noted on this Filing Receipt, please write to the Application Processing Division's Customer Correction Branch within 10 days of receipt. Please provide a copy of the Filing Receipt with the changes noted thereon.

Applicant(s)

MIN JIANG, SASKATCHEWAN, CANADA; ANDREW A. POTTER, SASKATCHEWAN, CANADA; PHILIP RONALD MACLACHLAN, SASKATCHEWAN, CANADA.

CONTINUING DATA AS CLAIMED BY APPLICANT-THIS APPLN IS A DIV OF 08/658,277 06/05/96 PAT 5,863,543 PROVISIONAL APPLICATION NO. 60/000,083 06/08/95

* SMALL ENTITY *

TITLE CAMP FACTOR OD STREPTOCOCCUS UBERIS

PRELIMINARY CLASS: 424

DOCKETED

REQUEST FOR FILING CONTINUATION/DIVISIONAL APPLICATION

Во As Wa

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	I hereby cen "Express Ma and is addre	tify that this paper ail Post Office to ssed to the Assista	r or fee is being depo Addressee" service of ant Commissioner for Commissioner for Mailing Paper or Fee)	osited with the Ununder 37 C.F.R. 1	ited S .10 c gton,	States Postal Son the date in D.C. 20231	dicated above
Sir:							
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1.53(b)(1), of pending	prior applicati	on serial no. 08/	658,277 filed	on J	une 5, 199	6, which claims
priority	to U.S. provis	ional patent ap	plication serial n	io. 60/000,083	file	d on June 8	3, 1995, of Min
Jiang, A	andrew A. Pott	er and Philip F	- R. MacLachlan f	or CAMP FAC	сто	R OF STR	EPTOCOCCUS
UBERIS		•					
1. <u>X</u>	Enclosed is an	n application fi	iled under 37 C.	F.R. 1.53(b)(1). N	lo new ma	ter has been added.
2. <u>X</u>	One verified	statement(s) of	small entity stat	us			
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3. <u>X</u>	The filing fee	is calculated b	pelow:				
	A. Basic App	olication Fee					\$760.00
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MAXILYNB. MCKENNA

(Typed or Printed Name of Person Mading Paper or Fee)

[Signature of Person Mailing Paper or Fee

CAMP FACTOR OF STREPTOCOCCUS UBERIS

Cross-Reference to Related Application This application is related to provisional patent application scrial no. 60/000,083, filed June 8, 1995, from which priority is claimed under 35 USC §119(e)(1) and which is incorporated herein by reference 10 in its entirety.

Technical Field

The present invention relates generally to bacterial antigens. More particularly, the present 15 invention pertains to the recombinant production of CAMP factor from Streptococcus uberis (S. uberis) and the use of CAMP factors in vaccine compositions.

Background

S. uberis is an important cause of mastitis in dairy cattle and is responsible for about 20% of all clinical cases of mastitis (Bramley, A.J. and Dodd, F.H. (1984) J. Dairy Res. <u>51</u>:481-512; Bramley, A.J. (1987) Animal Health Nutrition 42:12-16; Watts, J.L. (1988) \Im . Dairy Sci. 71:1616-1624). Since antimicrobial treatment is generally ineffective in treating S. uberis mastitis, the development of control measures must be based on an and and ing of wirelence factors and protective

mammary grand (coarsile to the 32; Leigh et al. (1990) Res. Vet. Sci. 49: 85-87; Marshall et al. (1986) J. Dairy Res. <u>53</u>: 507-514).